

SUBSTITUTE FOR FORM IPC/SB/08 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT								ATTY DOCKET NO: GOULIAEV=7A	SERIAL NO: 10/539,288
								APPLICANT: GOULIAEV, et al.	
								FILING DATE: June 16, 2005	GROUP:

## U. S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)

EXAM. INITIAL	ID	DOCUMENT NUMBER							FILING, ISSUE OR PUBLICATION DATE MM-DD-YYYY	PATENTEE OR APPLICANT	Relevant Passage(s)	T *
/J.D./	AA	6	4	2	9	3	0	0	Aug. 06, 2002	Kurz, M et al.		
	AB	6	2	0	7	4	4	6	Mar 27, 2001	Szostak, J et al.		
	AC	6	1	4	3	5	0	3	Nov 7, 2000	Baskerville, DS et al.		
	AD	6	6	2	0	5	8	7	Sept 16, 2002	Taussig, MJ et al.		
	AE	20030004122							Jan 2, 2003	Beigelman et al.		
	AF	6	5	9	3	0	8	8	Jul 15, 2003	Saito, I et al.		
	AG	5	5	7	1	9	0	3	Nov 5, 1991	Gryaznov, SM et al.		
	AH	5	4	7	6	9	3	0	Dec 19, 1995	Letsinger, RL et al.		
	AI	5	6	8	1	9	4	3	Oct 28, 1997	Letsinger, RL et al.		
	AJ	5	7	8	0	6	1	3	Jul 14, 1998	Letsinger, RL et al.		
	AK	5	7	4	1	6	4	3	Apr 21, 1998	Gryaznov, SM et al.		
	AL	5	8	3	0	6	5	8	Nov 3, 1998	Gryaznov, SM et al.		
	AM	5	8	4	3	6	5	0	Dec 1, 1998	Segev, D		
	AN	5	5	0	3	8	0	5	Apr 2, 1993	Sugarman et al.		
	AO	5	6	3	9	6	0	3	Jun 17, 1997	Dower et al.		
	AP	5	6	6	5	9	7	5	Sep 9, 1997	Kedar et al.		
	AQ	5	7	0	8	1	5	3	Jan 13, 1998	Dower et al.		
	AR	5	7	7	0	3	5	8	Jun 23, 1998	Dower et al.		
	AS	5	7	8	9	1	6	2	Aug 4, 1998	Dower et al.		
	AT	6	0	5	6	9	2	6	May 2, 2000	Sugarman et al.		
	AU	6	1	4	0	4	9	3	Oct 31, 2000	Dower et al.		
	AV	6	1	4	3	4	9	7	Nov 2, 2000	Dower et al.		
	AW	6	1	6	5	7	1	7	Dec 26, 2000	Dower et al.		
	AX	6	1	6	5	7	7	8	Dec 26, 2000	Kedar et al.		
	AY	6	4	1	6	9	4	9	July 9, 2002	Dower et al.		
	AZ	5	5	7	3	9	0	5	Nov. 12, 1996	Lerner, RL et al.		
	BA	5	7	2	3	5	9	8	Mar 3, 1998	Lerner, RL et al.		
	BB	6	0	6	0	5	9	6	May 9, 2000	Lerner, R et al.		
	BC	4	8	2	2	7	3	1	Apr. 18, 1989	Watson et al.		
	BD											

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/J.D./	BE	6,297,053	Oct. 2, 2001	Stemmer		
	BF	20050025766	Feb. 2, 2005	Liu et al.		
	BG	20050042669	Feb. 24, 2005	Liu et al.		
	BH	20050042669	Feb. 24, 2005	Liu, David R		
	BI	20050025766	Feb. 3, 2005	Liu, David R		
	BJ	2012583054	June 30, 2005	Liu, David R		
	BK	2005170376	Aug. 4, 2005	Liu, David R		
	BL	20030050453	March 13, 2003	Sorge Joseph A		
	BM	2004185484	Sept 23, 2004	Costa Gina L et al.		
	BN	2003182068	Oct 30, 2002	Battersby, Bronwyn, J. et al.		
	BO	5 6 6 3 0 4 6	Sept 2, 1997	Baldwin et al.		
	BP	20040197845	Oct 7, 2004	Hassibi, Arjang et al		
	BQ	20040191812	Sept 30, 2004	Davydova, Elena, K. et al		
	BR	6 7 8 0 9 8 1	Aug 24, 2004	Southern et al.		
	BS	6 6 2 0 5 8 4	Sept. 16, 2003	Chee et al.		
	BT	6 6 1 3 5 0 8	Sept 2, 2003	Ness et al.		
	BU	20030186233	Oct 2, 2003	Chesnut et al.		
	BV	20020115068	Aug 22, 2002	Tomlinson et al.		
	BW	20020081714	Jun 27, 2002	Jain, Maneesh et al.		
	BX	6 2 8 7 7 6 5	Sept 11, 2001	Cubicciotti, Roger S. et al.		
↓	BY	20050170376	Aug 4, 2005	Liu, David R et al.		

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EXAM. INITIAL	ID	COUNTRY CODE & DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	PATENTEE OR APPLICANT	RELEVANT PASSAGE(S)	T*
/J.D./	BZ	WO/9303172	02-18-1993	GOLD et al		E
	CA	WO/9831700	07-23-1998	SZOSTAK et al		E
	CB	WO/0032823	06-08-2000	LOHSE et al		E
	CC	WO/0047775	08-17-2000	SZOSTAK et al		E
↓	CD	WO/9005785	05-31-1990	SCHULTZ		E

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/J.D./	CE	EP 0324616	07-19-1989	ROYER et al	E
	CF	WO/9635699	11-14-1996	LETSINGER et al	E
	CG	EP 0695305	02-07-1996	LETSINGER et al	E
	CH	WO/0061775	10-19-2000	SERGEEV	E
	CI	EP 0604552	07-06-1994	DOWER et al	E
	CJ	WO 9512608	05-11-1995	SUGARMAN et al	E
	CK	EP 0773227	05-14-1997	DOWER et al	E
	CL	EP 0776330	06-04-1997	HOLMES	E
	CM	EP 0643778	03-22-1995	LERNER et al	E
	CN	WO/0023458	04-27-2000	HARBURY, et al	E
	CO	WO/02074929	09-26-2002	LIU et al	E
	CP	WO/2004016767	02-26-2004	LIU et al	E
	CQ	WO/9856904	12-17-1998	PAYAN	E
	CR	WO/0100876	01-04-2001	MIRKIN et al.	E
	CS	WO/9612014	04-25-1996	BRENNER	E
	CT	WO/02103008	12-27-2002	PEDERSEN et al	E
	CU	WO/02102820	12-27-2002	PEDERSEN et al	E
	CV	WO/03078625	09-25-2003	PEDERSEN et al	E
	CW	WO/2004013070	02-12-2004	PEDERSEN et al	E
	CX	WO/2004110964	12-23-2004	PEDERSEN et al	E
	CY	WO/2004024929	03-25-2004	FRANCH et al.	E
	CZ	WO/2004074501	09-02-2004	FRESKGARD et al	E
	DA	WO/03078445	09-25-2003	GOULIAEV et al.	E
	DB	WO/03078626	09-25-2003	GOULIAEV et al	E
	DC	WO/03078050	09-25-2003	GOULIAEV et al	E
	DD	WO/03078446	09-25-2003	GOULIAEV et al	E
	DE	WO/03078627	09-25-2003	GOULIAEV et al	E
	DF	WO/2004074429	09-02-2004	FRESKGARD et al	E
	DG	WO/2004083427	09-30-2004	FRANCH et al	E
	DH	WO/2004039825	05-13-2004	FRESKGARD et al	E
	DI	WO/2004001042	12-31-2003	FRESKGARD et al	E
	DJ	WO/9951773	10-14-1999	KUIMELIS et al	E
	DK	WO/9609316	03-28-1996	EATON et al	E
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/J.D./	DL	WO/0021909	04-20-2000	DILLARD et al.		E
	DM	WO/2004009814	01-29-2004	PEDERSEN et al.		E
	DN	EP 1533385	05-25-2005	GLAD et al		E
	DO	WO/2005003778	01-13-2005	FRESGARD et al		E
	DP	WO/2004099441	11-18-2004	MOLLER et al.		E
	DQ	WO/03082901	10-09-2003	LYNN, D et al.		E
	DR	WO/9105058	04-18-1991	KAWASAKI		E
	DS	WO/2005058479	06-30-2005	MORGAN et al.		E
	DT	WO/2004099441	11-18-2004	MOLLER et al.		E
	DU	WO/0040695	07-13-2000	ALEXANDROV et al		E
	DV	DE 19646372	06-19-1997	EVOTEC BIOSYSTEMS GMBH		A
	DW	WO/2005078122	08-25-2005	FRESKAARD et al		E
	DW1	WO/2005/026387	03-24-2005	THISTED, et al.		
 OTHER DOCUMENTS (include author, title, name of publication, volume, pages & date of publication)						
/J.D./	DX	Nemoto, N et al. "In vitro virus: bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro". FEBS Lett. 1997 Sep 8;414(2):405-8.				
	DY	Roberts, RW et al. "RNA-peptide fusions for the in vitro selection of peptides and proteins". Proc Natl Acad Sci U S A. 1997 Nov 11;94(23):12297-302.				
	DZ	Kurz, M et al. "An efficient synthetic strategy for the preparation of nucleic acid-encoded peptide and protein libraries for in vitro evolution protocols" Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm, September 1-30, 2000				
	EA	Kurz, M et al. "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions. Nucleic Acids Res. 2000 Sep 15;28(18):E83.				
	EB	Keiler et al. "Role of a peptide tagging system in degradation of proteins synthesized from damaged messenger RNA". Science. 1996 Feb 16;271(5251):990-3.				
	EC	Benner, SA. "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis". Trends Biotechnol. 1994 May;12(5):158-63				
	ED	Mendel, D. "Site-directed mutagenesis with an expanded genetic code". Annu. Rev. Biophys. Biomol. Struc. 1995. 24:463-93				
	EE	Liu DR et al. "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural amino acids into proteins in vivo". Proc Natl Acad Sci U S A. 1997 Sep 16;94(19):10092-7.				
	EF	Liu DR et al. "Progress toward the evolution of an organism with an expanded genetic code". Proc Natl Acad Sci USA. 1999 Apr 27;96(9):4780-5				
	EG	Liu, R et al. "Optimized synthesis of RNA-protein fusions for in vitro protein selection". Methods Enzymol. 2000;318:268-93.				
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/J.D./	EH	Wang, L et al. "A new functional suppressor tRNA/aminoacyl-tRNA synthetase pair for the in vivo incorporation of unnatural amino acids into proteins" J. Am. Chem. Soc 2000, 122, 5010-5011 Pub 5 April 2000
	EI	Ellman J.A., et al. " Biosynthetic method for introducing Unnatural Amino acids site specifically into proteins". Methods Enzymol. 202, 301-336 (1992)
	EJ	José Salas et al. "Biosynthetic Polydeoxynucleotides as Direct Templates for Polypeptide Synthesis". J. of Biological Chemistry, vol.243, No. 6, 1968, p. 1012-1015
	EK	Walder JA, Walder RY, Heller MJ, Freier SM, Letsinger RL, Klotz IM. "Complementary carrier peptide synthesis: general strategy and implications for prebiotic origin of peptide synthesis". Proc Natl Acad Sci U S A. 1979 Jan;76(1):51-5.
	EL	Bruick et al. "Template-directed ligation of peptides to oligonucleotides" Chemistry and Biology, vol. 3, No. 1, January 1996, p.49-56.
	EM	Tamura K, Schimmel P. "Oligonucleotide-directed peptide synthesis in a ribosome- and ribozyme-free system". Proc Natl Acad Sci U S A. 2001 Feb 13;98(4):1393-7.
	EN	Lewis RJ, Hanawalt PC. "Ligation of oligonucleotides by pyrimidine dimers--a missing 'link' in the origin of life?", Nature, 22;298(5872):393-6.
	EO	Liu J, Taylor JS. "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine". Nucleic Acids Res. 1998 Jul 1;26(13):3300-4
	EP	Fujimoto et al. "Template-directed photoreversible ligation of deoxyoligonucleotides via 5-Vinyldeoxyuridine" J. Am. Soc. 2000, 122, 5646-5647
	EQ	Kenzo Fujimoto, Shigeo Matsuda, Naoki Ogawa, Masayuki Hayashi & Isao Saito "Template-directed reversible photocircularization of DNA via 5-vinyldeoxycytidine". TETRAHEDRON LETTERS 2000 , 41:33:6451-6454
	ER	Kenzo Fujimoto, Naoki Ogawa, Masayuki Hayashi, Shigeo Matsuda & Isao Saito, "Template directed photochemical synthesis of branched oligodeoxynucleotides via 5-carboxyvinyldeoxyuridine". Tetrahedron Letters 2000, 41:49:9437-40
	ES	Gryaznov et al. "Chemical Ligation of oligonucleotides in the presence and absence of a template". J. Amer. Chem. Soc. 1993, 115, 3808-9.
	ET	Gryaznov SM, Letsinger RL. "Template controlled coupling and recombination of oligonucleotide blocks containing thiophosphoryl groups". Nucleic Acids Res. 1993 Mar 25;21(6):1403-8
	EU	Gryaznov SM, Schultz R, Chaturvedi SK, Letsinger RL. "Enhancement of selectivity in recognition of nucleic acids via chemical autoligation". Nucleic Acids Res. 1994 Jun 25;22(12):2366-9.
	EV	Herrlein MK, Letsinger RL. "Selective chemical autoligation on a double-stranded DNA template". Nucleic Acids Res. 1994 Nov 25;22(23):5076-8
↓	EW	Letsinger, RL; Wu, T; Elghanian, R "Chemical and photochemical ligation of oligonucleotide blocks". Nucleosides and nucleotides, 16(5&6), 643-652 (1997)

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OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)

/J.D./	EX	Visscher J, Schwartz AW "Template-directed synthesis of acyclic oligonucleotide analogues". <i>J Mol Evol.</i> 1988 Dec-1989 Feb;28(1-2):3-6.
	EY	Visscher J, Bakker CG, van der Woerd R, Schwartz AW "Template-directed oligomerization catalyzed by a polynucleotide analog". <i>Science.</i> 1989 Apr 21;244 (4902):329-31.
	EZ	Visscher J, van der Woerd R, Bakker CG, Schwartz AW. "Oligomerization of deoxynucleoside-bisphosphate dimers: template and linkage specificity". <i>Orig Life Evol Biosph.</i> 1989;19(1):3-6.
	FA	Zhan, ZJ and Lynn, DG "Chemical Amplification through template-directed synthesis". <i>J. Am. Chem. Soc.</i> 1997, 119, 12420-1
	FB	Bruick RK, Koppitz M, Joyce GF, Orgel LE. "A simple procedure for constructing 5'-amino-terminated oligodeoxynucleotides in aqueous solution". <i>Nucleic Acids Res.</i> 1997 Mar 15;25(6):1309-10
	FC	Albagli, D; Atta, RVA; Cheng, P; Huan, B and Wood, ML. "Chemical amplification (CHAMP) by a continuous, self-replicating oligonucleotide-based system" <i>J. Am. Chem. Soc.</i> 1999, 121, 6954-6955. Pub. on the web 14 July 1999.
	FD	Xu, Y and Kool, E "Rapid and Selective selenium-mediated autoligation of DNA strands" <i>J. Am. Chem. Soc.</i> 2000, 122, 9040-1 Pub. on web 08/31/2000.
	FE	Xu Y, Karalkar NB, Kool ET. "Nonenzymatic autoligation in direct three-color detection of RNA and DNA point mutations". <i>Nat Biotechnol.</i> 2001 Feb;19(2):148-52.
	FF	Li X, Zhan ZY, Knipe R, Lynn DG. "DNA-catalyzed polymerization". <i>J Am Chem Soc.</i> 2002 Feb 6;124(5):746-7.
	FG	Czapinski, JL and Sheppard, TL. "Nucleic acid template-directed assembly of metallosalen-DNA conjugates". <i>J Am Chem Soc.</i> 2001 Sep 5;123(35):8618-9 published on the web 08/10/2001
	FH	Leitzel JC, Lynn DG "Template-directed ligation: from DNA towards different versatile templates". <i>Chem Rec.</i> 2001;1(1):53-62. Published online 30 Jan 2001.
	FI	Schmidt JG, Nielsen PE, Orgel LE. "Information transfer from peptide nucleic acids to RNA by template-directed syntheses". <i>Nucleic Acids Res.</i> 1997 Dec 1;25 (23):4797-802.
	FJ	DOWER, WJ et al. "In vitro selection as a powerful tool for the applied evolution of proteins and peptides". <i>Current Opinion in Chemical Biology</i> , 2002, 6:390-398.
	FK	Brenner, S and Lerner, RA . "Encoded combinatorial chemistry" <i>Proc. Natl. Acad. Sci. USA.</i> Vol 89, p 5381-3, June 1992.
	FL	Gartner, Z; Liu, DR "The generality of DNA-templated synthesis as a basis for evolving non-natural small molecules". <i>J Am Chem Soc.</i> 2001 Jul 18;123 (28):6961-3.
	FM	Gartner, et al., "Expanding the reaction scope of DNA-templated synthesis". <i>Angew. Chem. Int. Ed.</i> 2002, 41, No. 10 pp. 1796-1800. Published May 15, 2002.
	FN	Gartner, ZJ et al. "Multistep small-molecule synthesis programmed by DNA templates". <i>J. AM. CHEM. SOC.</i> Vol. 124, No. 35, 2002, 10304-10306.

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/J.D./	FO	Calderone, CT et al. "Directing otherwise incompatible reactions in a single solution by using DNA-templated organic synthesis". <i>Angew Chem Int Ed</i> , 2002, 41, No. 21. 4104-4108.
	FP	Bittker, JA; Phillips, KJ and Liu, DR "Recent advances in the in vitro evolution of nucleic acids". <i>Curr Opin Chem Biol.</i> 2002 Jun; 6(3):367-74. Review. Pub. on the web 20 <sup>th</sup> March 2002.
	FQ	Summerer, D and Marx, A "DNA-templated synthesis: more versatile than expected". <i>Angew Chem Int Ed Engl.</i> 2002 Jan 4; 41(1):89-90. Review
	FR	Gartner, ZJ et al. "Two enabling architectures for DNA-templated organic synthesis ". <i>Angew. Chem. Int. Ed.</i> 2003, 42, No. 12, 1370-1375.
	FS	Rosenbaum, DM et al. "Efficient and sequence-specific DNA-templated polymerization of peptide nucleic acid aldehydes". <i>J. AM. CHEM. SOC.</i> Vol. 125, No. 46, 2003, 13924-13925.
	FT	Li, X et al. "Stereoselectivity in DNA-templated organic synthesis and its origins". <i>J. AM. CHEM. SOC.</i> Vol. 125, No. 34, 2003, 10188-10189.
	FU	Gordon, EM et al. "Applications of combinatorial technologies to drug discovery. 2. Combinatorial organic synthesis, library screening strategies, and future directions". <i>Journal of Medicinal Chemistry</i> , Vol. 37, No. 10, May 13, 1994.
	FV	Otto, S et al. "Recent developments in dynamic combinatorial chemistry". <i>Current opinion in Chemical Biology</i> 2002, 6: 321-327.
	FW	Pavia, MR. "The Chemical generation of molecular diversity". <a href="http://www.netsci.org/Science/Combichem/feature01.html">http://www.netsci.org/Science/Combichem/feature01.html</a> [Date accessed 11-02-2004]
	FX	Braun, E, et al. "DNA-templated assembly and electrode attachment of a conducting silver wire". <i>Nature</i> , Vol. 391, 19 February 1998, 775-778.
	FY	Tanaka, K et al. "Synthesis of a novel nucleoside for alternative DNA base pairing through metal complexation" <i>J. Org. Chem.</i> 1999, 64, 5002-5003.
	FZ	Beger, M et al. "Universal bases for hybridization, replication and chain termination", <i>Nucleic acids research</i> , 1 Aug. 2000, vol. 28, no. 15, pub., p2911-2914.
	GA	Weizman, H et al. "2,2'-Bipyridine ligandoside: a novel building block for modifying DNA with intra-duplex metal complexes". <i>J. Am. Chem. Soc.</i> 2001, 123, 3375-3376.
	GB	Frutos, AG et al. "Demonstration of a word design strategy for DNA computing on surfaces". <i>Nucleic Acids Research</i> , 1997, Vol. 25, No. 23, 4748-4757.
	GC	Loweth, CJ et al. "DNA-based assembly of gold nanocrystals". <i>Angew. Chem. Int. Ed.</i> 1999, 38, No. 12. 1808-1812.
	GD	Elghanian, R et al. "Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles". <i>Science</i> , Vol. 277, 22 August 1997, .
	GE	Storhoff, JJ and Mirkin, CA. "Programmed Materials Synthesis with DNA". <i>Chem Rev.</i> 1999 Jul 14; 99(7):1849-1862.
	GF	Mirkin CA. "Programming the assembly of two- and three-dimensional architectures with DNA and nanoscale inorganic building blocks". <i>Inorg Chem.</i> 2000 May 29; 39(11):2258-72.
↓	GG	Waybright SM, Singleton CP, Wachter K, Murphy CJ, Bunz UH. "Oligonucleotide-directed assembly of materials: defined oligomers". <i>J Am Chem Soc.</i> 2001 Mar 7; 123(9):1828-33. Pub. on web 02/07/2001.

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	GJ	Nielsen, J et al. "Synthetic methods for the implementation of encoded combinatorial chemistry". J. Am. Chem. Soc. 1993, 115, 9812-9813.
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	GN	Luther, A et al. "Surface-promoted replication and exponential amplification of DNA analogues". Nature, 19 November 1998, Vol. 396, 245-248.
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	HB	Inoue et al, "Oligomerization of (Guanosine 5'-phosphor)-2-methylimidazolide on Poly(C), J. Mol. Biol. (1982), 162, 201-217
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	HG	C. Böhler et al., "Template switching between PNA and RNA oligonucleotides", Nature 1995, 376, 578-581
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	HI	Piccirilli, "RNA seeks its maker", Nature, 17 August 1995, vol. 376, p548-
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	HK	Halpin et al.: DNA display III. Solid-phase organic synthesis on unprotected DNA. PLoS Biol. 2004 Jul;2(7):E175. Epub 2004 Jun 22.
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